

Stephen Whitmarsh

*Operational Head — Data Analysis Core,
Paris Brain Institute*

Discoveries through open, experimental, interdisciplinary science

✉ stephenwhitmarsh@proton.me

🆔 0000-0002-3969-6565

in [stephen-whitmarsh-6a043347/](https://orcid.org/0000-0002-3969-6565)

🐙 [icm-institute/dac](https://github.com/icm-institute/dac)

Profile

Neuroscientist and data science leader with over 15 years' experience. As operational head of the bioinformatics and data management core facility at the Paris Brain Institute: FAIR/open science strategy, technology development, and partnerships. Proven track record in leading multidisciplinary teams and aligning research with institutional goals.

Key Facts: Leading a team of 17 staff, managing a €1.5 M budget and annual turnover of €0.3 M, supporting 100+ research projects across 50+ academic teams and industrial partners.

Vision & Strategic Priorities

- Ensure scientific openness, transparency and integrity.
- Build sustainable infrastructures supporting interdisciplinary research and knowledge exchange.
- Foster international and cross-sector partnerships across science, technology, and culture.

Experience

2023–Present **Operational Head, Paris Brain Institute, Paris, France**

- Reorganized and expanded the Data Analysis Core: recruited specialists across AI and data management, aligning staff expertise with institutional missions.
- Implemented project and workload management systems and a transparent pricing model, ensuring efficiency, sustainability and accountability.
- Directed strategy and implementation for FAIR data and open science, embedding shared practices across research teams and platforms.

2018–2023 **Research Leadership, Paris Brain Institute, Paris, FR**

- Coordinated interdisciplinary Sci-Art ANR project (*Brain Body Digital Music Instruments*), linking neuroscience, electrophysiology, and open-source technology.
- Led translational epilepsy research and developed a multimodal analysis platform adopted in collaborative projects (Prof. Vincent Navarro).

2015–2018 **Postdoctoral Researcher, École Normale Supérieure, Paris, FR**

- Researched brain–viscera dynamics (MEG, EGG) and developed interdisciplinary methods connecting physiology and cognitive neuroscience, PI Catherine Tallon-Baudry.

2013–2015 **Lab Manager, NatMEG, Karolinska Institute, Stockholm, SE**

- Co-established and promoted internationally Sweden's first national MEG facility.

2006–2013 **Early Career Contributions, Donders Institute & University of Amsterdam, NL**

- Member of the [FieldTrip](#) development team (open-source neuroimaging tools); freelance researcher in neuroimaging and electrophysiology at the University of Amsterdam.

Institutional Representation

- Led development of the Paris Brain Institute's first [Data Policy](#) in collaboration with data experts, regulatory/legal offices, and executive leadership.
- Represents the Institute in national infrastructures (€20M MuDIS4LS), scientific workgroups (INSB, [IFB/ELIXIR-FR](#), [GT-GeDeM](#)), and global networks (Reproducibility Network), advancing FAIR data frameworks in life sciences.
- Member of the [Collège de données de la recherche](#) of the *Comité pour la science ouverte* of the French Ministry of Higher Education and Research.
- Co-founder of [EEGsynth.org](#) (open-source brain–computer interfaces for art) and [OuUnPo.org](#) (pan-European science–art research collective).

Education

- 2008–2012 **PhD, Cognitive Neuroscience**, *Donders Institute*, Netherlands
2012–2015 **MA, Culture and Media Production**, *Linköping University*, Sweden
1999–2005 **MSc, Cognitive Psychology**, *University of Amsterdam*, Netherlands

Skills & Competencies

- Leadership Strategic planning, institutional representation, interdisciplinary engagement, change management, team building, and career development.
- Infrastructure FAIR/Open Science policy, data governance, and platform development.
- Partnerships Driving engagement with academic, clinical, cultural, and industrial stakeholders.
- Technical Data science (Python, R, MATLAB) & neuroscience methods (EEG, MEG, electro-physiology, neuroimaging, machine learning).
- Languages English & Dutch (bilingual), French (B2 working proficiency).

Selected Recent Publications

- Whitmarsh, S., Nguyen-Michel, V.-H., Lehongre, K., et al. "Sleep Increases Firing Rate Modulation during Interictal Epileptiform Discharges in Mesial Temporal Structures." *Brain Communications* 8, no. 3 (2026): fcag130. <https://doi.org/10.1093/braincomms/fcag130>
- Khemir, I., Whitmarsh, S., Bardinet, E., & Valabregue, R. "Data-Efficient Synthetic Training for Unified Segmentation of Healthy and Abnormal Brain Tissue." *Colloque Français d'Intelligence Artificielle en Imagerie Biomédicale (IABM)*, 2026.
- Liang, S., Yu, C., Wang, Q., Roussel, D., Whitmarsh, S., Lehongre, K., Levchenko, A., Navarro, V., & Palpanas, T. "Zero-to-Hero: Knowledge-Guided Unsupervised Active Learning for EEG-Based Detection of Interictal Epileptiform Discharges." *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases*, 2026.

Additional Information

Detailed lists of workshops, art–science activities, media features, publications, and conference presentations are provided in the **Annex to this CV**.